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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/627,436	07/25/2003	Fritz Steudel	RTN-175PUS	2343	
22494 75	90 04/19/2005		EXAM	EXAMINER	
DALY, CROWLEY, MOFFORD & DURKEE, LLP			PIHULIC, DANIEL T		
SUITE 101 275 TURNPIKE	E STREET		ART UNIT	PAPER NUMBER	
CANTON, MA 02021-2310			3662		
			DATE MAILED: 04/10/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/627,436	STEUDEL, FRITZ				
Office Action Summary	Examiner	Art Unit				
	Daniel Pihulic	3662				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed. s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status		·				
1) Responsive to communication(s) filed on	_•					
2a) This action is <b>FINAL</b> . 2b) ⊠ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-14 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-7 and 12-14</u> is/are rejected.						
7)⊠ Claim(s) <u>8-11</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>16 June 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  4) Interview Summary (PTO-413) Paper No(s)/Mail Date.						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date <u>20050411820041028</u> . 6) Other:						

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1. The numbering of claims is not in accordance with 37 CFR 1.126 which requires the original

numbering of the claims to be numbered consecutively. Thus the last seven claims have been

renumbered 8-14.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for

the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or

in public use or on sale in this country, more than one year prior to the date of application for

patent in the United States.

3. Claims 1 and 12-14 are rejected under 35 U.S.C. 102(b) as being anticipated by DE4407369,

US5442359 or US2002/00606039. The references disclose producing a wideband envelope range

estimate and an unambiguous phase value indicative of range as recited in the aforementioned claims.

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness

rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as

set forth in section 102 of this title, if the differences between the subject matter sought to be

patented and the prior art are such that the subject matter as a whole would have been obvious

at the time the invention was made to a person having ordinary skill in the art to which said

subject matter pertains. Patentability shall not be negatived by the manner in which the invention

was made.

Claim 2-7 is rejected under 35 U.S.C. 103(a) as being unpatentable over DE4407369,

US5442359 or US2002/00606039. The references disclose producing a wideband envelope range

estimate and an unambiguous phase value indicative of range as recited in the claim. The difference

between the references and claim 3 is that the claim recites the utilization of a sampling rate that is at

least twice the frequency of the spin motion. The Nyquist theory teaches that it was well known to sample

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at least twice the frequency of that which is being measured . It would have been obvious to utilize a

sampling rate high enough to produce meaningful data.

With regard to claims 2 and 4-7 the claims appear to be producing an error signal for feedback to adjust

the system, which is disclosed by the references

6. Claims 8-11 are objected to as being dependent upon a rejected base claim, but would be

allowable if rewritten in independent form including all of the limitations of the base claim and any

intervening claims.

7. Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Dan Pihulic whose telephone number is 571-272-6977. The examiner can normally be

reached on Tuesday through Thursday from 5:30 a.m. to 4 p.m. If attempts to reach the examiner by

telephone are unsuccessful, the examiner's supervisor, Thomas Tarcza, can be reached on 571-272-

6979. ·

The fax phone numbers for the organization where this application or proceeding is assigned are:

703-872-9306 for official responses, and

571-271-6977 for unofficial communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be

directed to the receptionist whose telephone number is 571-272-6584.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free).

1 Dan Bihulic 1

Daniel Pihulic Primary Examiner

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